



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

October 27, 2010

Mr. Matthew S. McCormick, Manager  
United States Department of Energy  
Richland Operations Office  
P.O. Box 550, MSIN: A5-10  
Richland, Washington 99352

Mr. David A. Brockman, Manager  
United States Department of Energy  
Office of River Protection  
P.O. Box 450, MSIN: H6-60  
Richland, Washington 99352

Mr. Charles G. Spencer, President  
Washington River Protection Solutions, LLC  
P.O. Box 850, MSIN: H6-63  
Richland, Washington 99352

Mr. M. Neil Brosee, General Manager  
Washington Closure Hanford, LLC  
2620 Fermi Avenue, MSIN: H4-24  
Richland, Washington 99354

Mr. J. Frank Armijo, President  
Mission Support Alliance, LLC  
2490 Garlick Boulevard, MSIN A3-01  
Richland, Washington 99354

Mr. Frank Russo, Project Director  
Bechtel National, Inc.  
2435 Stevens Center Place, MSIN: H4-02  
Richland, Washington 99354

Mr. Michael H. Schlender  
Associate Laboratory Director, Operational Systems  
Pacific Northwest National Laboratory  
P.O. Box 999, MSIN: K1-46  
Richland, Washington 99352

Mr. John G. Lehew, President  
CH2M HILL Plateau Remediation Company  
P.O. Box 1600, MSIN: H7-30  
Richland, Washington 99352

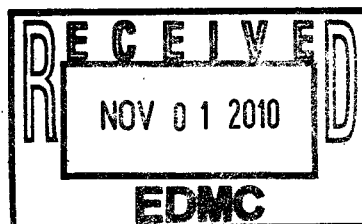
Re: United States Department of Energy Letter, dated October 13, 2010, *Class 1 Modifications to the Hanford Facility Resource Conservation and Recovery Act Permit, Quarter Ending September 30, 2010*

Gentlemen:

The Department of Ecology reviewed the referenced quarterly Class 1 and Class 1 prime modifications. You will find the results of that review on the following pages. Enclosed are Modification Notification Forms indicating that Ecology concurs, approves, or denies the modifications indicating the changes.

**Hanford Facility RCRA Permit Modification Notification Form,**  
**Part III, Operating Unit 10, Waste Treatment and Immobilization Plant**

Page 2 of 3: Appendix 7.12  
Page 2 of 3: Appendix 8.2  
Page 2 of 3: Appendix 8.2



Approve  
Approve  
Approve

H-0-1, T-2-6, H-0-8



Mr. Matthew S. McCormick et al.  
October 27, 2010  
Page 2

Page 2 of 3:	Appendix 9.9	Approve
Page 2 of 3:	Appendix 9.11	Deny
Page 2 of 3:	Appendix 10.6	Approve

**Hanford Facility RCRA Permit Modification Notification Forms Part III, Operating Unit 2, PUREX Storage Tunnels**

Page 2 of 8:	Hanford Facility RCRA Permit III.2	Approve
Page 3 of 8:	Addendum E, Addendum F, and Addendum I	Approve
Page 4 of 8:	Addendum G	Approve
Page 5 of 8:	Addendum J, §J.1.4	Approve
Page 6 of 8:	Addendum J, §J.3	Approve
Page 7 of 8:	Addendum J, §J.3.2	Approve
Page 8 of 8:	Addendum J, §J.4	Approve

**Hanford Facility RCRA Permit Modification Notification Forms Permit Attachments**

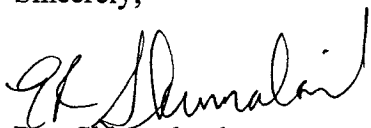
Page 2 of 5	Permit Revision 8C, List of Attachments	Concur
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**Part III, Operating Unit 3 Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility**

Page 2 of 12:	Part III, OU-3 Permit Conditions	Approve
Page 3 of 12	Addendum J, Table J.1	Approve
Page 4 of 12	Addendum J, §J.3	Approve
Page 5 of 12	Addendum J, §J.3.1.1	Approve
Page 6 of 12	Addendum J, §J.3.1.2	Approve
Page 7 of 12	Addendum J, §J.3.2.4	Approve
Page 8 of 12	Addendum J, §J.3.2.5	Approve
Page 9 of 12	Addendum J, J.4	Approve
Page 10 of 12	Addendum J, §J.4.1	Approve
Page 11 of 12	Addendum J, §J.4.5	Approve
Page 12 of 12	Addendum J, Figure J.2	Approve

If you have any questions, please contact me at 509-372-7924.

Sincerely,



Ron Skinnarland  
Manager, Waste Management Section  
Nuclear Waste Program  
js  
Enclosures (25)



Mr. Matthew S. McCormick et al.  
October 27, 2010  
Page 3

cc w/enc:

Lori A. Huffman, USDOE, H6-60	Stuart Harris, CTUIR
Woody Russell, USDOE	Gabriel Bohnce, NPT
William J. Taylor, USDOE	Russell Jim, YN
Stephen R. Weil, USDOE, A5-15	Susan Leckband, HAB
Brad Erlandson, BNI, MS: 7-A	Ken Niles, ODOE
Moussa N. Jaraysi, CHPRC, H8-43	Administrative Record: HSWP, H6-08
Kirk A. Peterson, MSA, E6-28	(TSD: H-0-1, T-2-6, H-0-8)
Eric Damberg, PNNL, K1-46	HFOR (S. A. Thompson), MSA, E6-28
Roger J. Landon, WCH, H4-21	USDOE-ORP Correspondence Control
	USDOE-RL Correspondence Control
	Environmental Portal, A3-95

Quarter Ending 09/30/2010

24590-WTP-PCN-ENV-08-001

**Hanford Facility RCRA Permit Modification Notification Form**

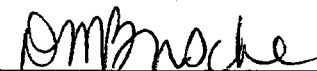
**Part III, Operating Unit 10**

**Waste Treatment and Immobilization Plant**

**Index**

Page 2 of 3:    Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant  
Replace permit document "Tank System and Miscellaneous Unit System Piping Weld Nondestructive  
Examination Requirements," 24590-WTP-PER-M-06-001 in Appendix 7.12 of the Dangerous Waste Permit.

Submitted by Co-Operator:



D. M. Busche

7/7/10

Date

Reviewed by ORP Program Office:



D. Knutson

7/28/10

Date

Quarter Ending 09/30/2010

24590-WTP-PCN-ENV-08-001

### Hanford Facility RCRA Permit Modification Notification Form

Unit:	Permit Part:
<b>Waste Treatment and Immobilization Plant</b>	<b>Part III, Operating Unit 10</b>

**Description of Modification:**

The purpose of this Class 1 prime modification is to replace the Tank System and Miscellaneous Unit System Piping Weld Nondestructive Examination Requirements permit document. The following Engineering Specifications are submitted to replace the document currently in Appendix 7.12.

**Appendix 7.12**

Replace:	24590-WTP-PER-M-06-001, Rev. 0	With:	24590-WTP-3PS-PS02-T0001, Rev 10
			24590-WTP-3PS-PS02-T0003, Rev 8

This modification requests State of Washington Department of Ecology approval to replace the Tank system and Miscellaneous Unit system Piping Weld Nondestructive Examination Requirements (NDE) permit document with the Engineering Specification for Shop Fabrication of Piping and the Engineering Specification for Field Fabrication and Installation of Piping.

This permit change notice describes changes/clarifications to piping weld NDE, and related requirements, made in the engineering specifications since issuance of the permit document. The NDE requirements are summarized in table format in Appendix A of the current permit document, Appendix A of the Engineering Specification for Shop Fabrication of Piping, and Appendix B of the Engineering Specification for Field Fabrication and Installation of Piping. There is not a one-for-one correlation between the NDE requirements in the permit document and the engineering specifications because the permit document combined and summarized NDE requirements for both shop and field fabrication of piping welds into a single document. The NDE requirements for piping welds are in accordance with ASME B31.3, 1996, Process Piping.

The following summarizes the significant changes:


- Specification 24590-WTP-3PS-PS02-T0001, Rev 10, added/clarified requirements for both shop welding and NDE of shop welds, including:
  - Definitions, locations, and weld boundaries for black cell and hard to reach areas
  - NDE requirements for black cell and hard to reach areas
  - Requirements for welding and cleaning of titanium piping
  - Requirements for vacuum box leak testing
  - Requirement for manufacturer to perform 100% radiography of all ASTM A312 seam welded pipe to be installed in black cells and hard to reach areas
  - Requirements for minimum wall thickness measurement
  - Liquid penetrant acceptance requirements
  - NDE requirements for integrally reinforced fitting branch connection welds
  - Marking requirements
- Specification 24590-WTP-3PS-PS02-T0003, Rev 8, added/clarified requirements for field welding and NDE of field welds, including:
  - Definitions, locations, and weld boundaries for black cell and hard to reach areas
  - NDE requirements for black cell and hard to reach areas
  - RT acceptance criteria for jacket piping welds
  - Requirements for installation of embedded pipe
  - Requirement for shop welds not to rest on steel members
  - Requirements for orientation of seam welds for high pressure steam isometrics
  - NCR dispositions for hydrostatic testing of transfer lines
  - Requirements for welding and cleaning of titanium piping

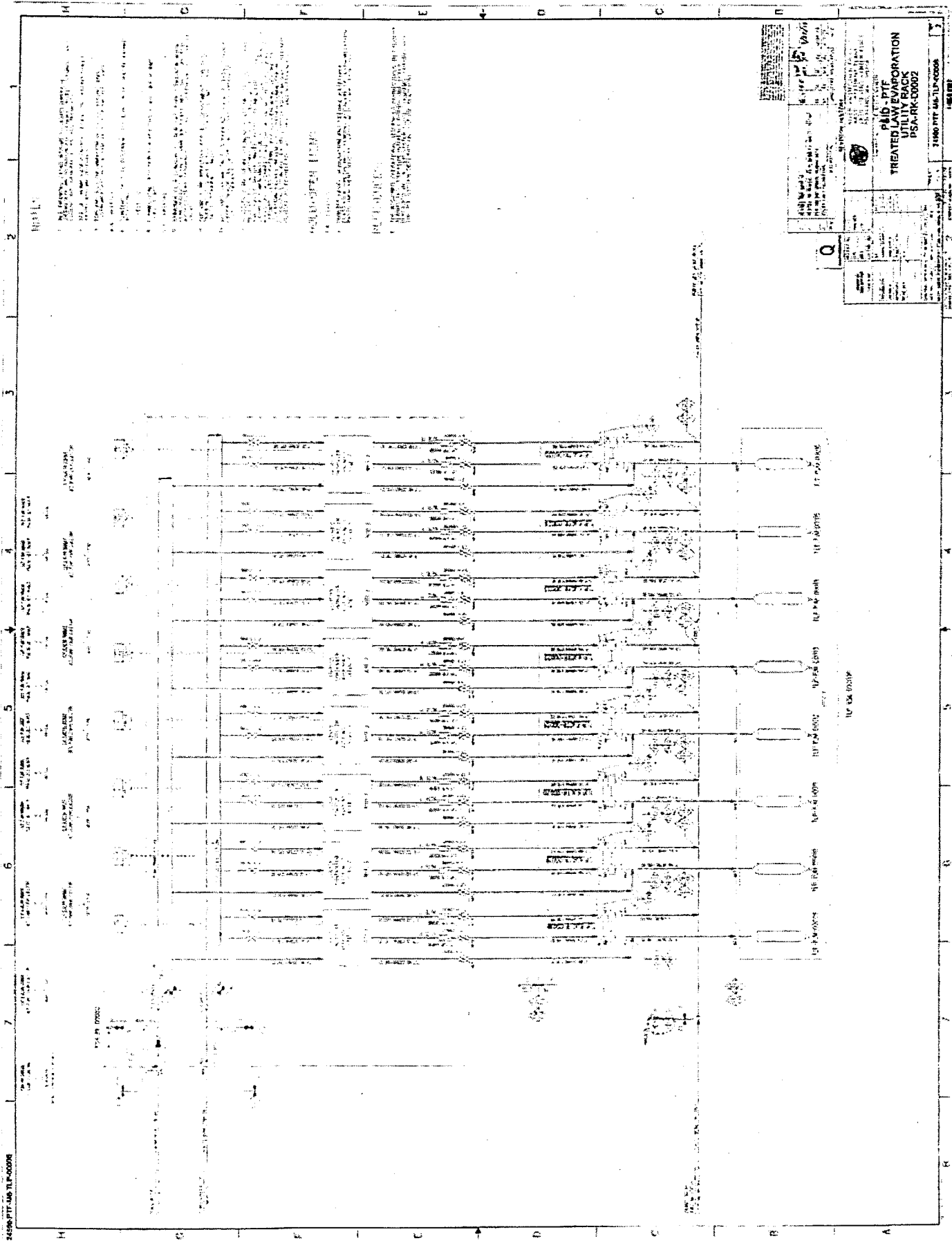
Quarter Ending 09/30/10

24590-PTF-PCN-ENV-10-026

WAC 173-303-830 Modification Class:	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please mark the Modification Class:		X		

Enter relevant WAC 173-303-830, Appendix I Modification citation number:  
Enter wording of WAC 173-303-830, Appendix I Modification citation:  
In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class <sup>1</sup>1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

Modification Approved/Concur:	<input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)	Reviewed by Ecology:
Reason for denial:		 9/22/10
		S. Dahl Date



100' SCALE

**PLD-PTF**  
**TREATED LAYER/PAVE**  
**PSA-RK-00002**

24500 PTF 440 TLF-000000

100' SCALE



Quarter Ending June 30, 2010

24590-PTF-PCN-ENV-08-028

**Hanford Facility RCRA Permit Modification Notification Form****Part III, Operating Unit 10****Waste Treatment and Immobilization Plant**

## Index

Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant  
Update Piping and Instrumentation Diagrams (P&ID) for the PTF Vessel Vent Process System (PVP) Caustic Scrubber (PVP-SCB-00002) and associated Bulge in Appendix 8.2 of the Dangerous Waste Permit, and P&IDs for the PTF Cesium Nitric Acid Recovery Process System Evaporator Vessel (CNP-EVAP-00001) in Appendix 8.2 of the Dangerous Waste Permit.

Submitted by Co-Operator:

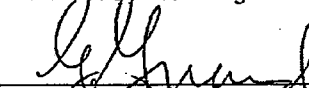


D. M. Busche

4/21/10

Date

Reviewed by ORP Program Office:



G. A. Girard

4/21/10

Date

Quarter Ending June 30, 2010

24590-PTF-PCN-ENV-08-028

<b>Hanford Facility RCRA Permit Modification Notification Form</b>																							
Unit: <b>Waste Treatment and Immobilization Plant</b>		Permit Part: <b>Part III, Operating Unit 10</b>																					
<p><u>Description of Modification:</u></p> <p>The purpose of this Class 1 modification is to update the P&amp;IDs for the PTF Vessel Vent Process System Caustic Scrubber and associated Bulge, and PTF Cesium Nitric Acid Recovery Process System Evaporator Vessel in Appendix 8.2 of the Dangerous Waste Permit. The permit P&amp;IDs incorporated into the DWP are being replaced with source P&amp;IDs as indicated in the Table below. The increase in the number of PVP drawings submitted results from converting the source drawing into three to provide a more clear representation of the system, including additional details for instrumentation and control logic.</p>																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: left; padding: 2px;">Appendix 8.2</th> </tr> </thead> <tbody> <tr> <td style="width: 15%; padding: 2px;">Replace:</td> <td style="width: 35%; padding: 2px;">24590-PTF-M6-PVP-P0017, Rev 0</td> <td style="width: 10%; padding: 2px;">With:</td> <td style="width: 40%; padding: 2px;">24590-PTF-M6-PVP-00017001, Rev 0</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="padding: 2px;">24590-PTF-M6-PVP-00017002, Rev 0</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="padding: 2px;">24590-PTF-M6-PVP-00017003, Rev 0</td> </tr> <tr> <td></td> <td style="padding: 2px;">24590-PTF-M6-CNP-P0008, Rev 1</td> <td></td> <td style="padding: 2px;">24590-PTF-M6-CNP-00008, Rev 2</td> </tr> </tbody> </table>				Appendix 8.2				Replace:	24590-PTF-M6-PVP-P0017, Rev 0	With:	24590-PTF-M6-PVP-00017001, Rev 0				24590-PTF-M6-PVP-00017002, Rev 0				24590-PTF-M6-PVP-00017003, Rev 0		24590-PTF-M6-CNP-P0008, Rev 1		24590-PTF-M6-CNP-00008, Rev 2
Appendix 8.2																							
Replace:	24590-PTF-M6-PVP-P0017, Rev 0	With:	24590-PTF-M6-PVP-00017001, Rev 0																				
			24590-PTF-M6-PVP-00017002, Rev 0																				
			24590-PTF-M6-PVP-00017003, Rev 0																				
	24590-PTF-M6-CNP-P0008, Rev 1		24590-PTF-M6-CNP-00008, Rev 2																				
<p>This modification requests Ecology approval and incorporation into the permit, the changes provided in applicable document change forms (e.g., DCNs) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permitted drawing. Revisions are the result of ongoing design changes.</p>																							
<p>The following identifies the significant changes to the drawings:</p> <ul style="list-style-type: none"> <li>• Modified, deleted, and added notes, holds, and references</li> <li>• Modified, identified, and added support/utility system lines, valves, in-line components, instruments and control logic</li> <li>• Incorporated changes from DCNs identified in the following notes:               <ul style="list-style-type: none"> <li>• Note 9 (24590-PTF-M6-PVP-00017001 &amp; -00017003)</li> <li>• Note 8 (24590-PTF-M6-PVP-00017002)</li> <li>• Note 29 (24590-PTF-M6-CNP-00008)</li> </ul> </li> </ul>																							
<p>The following outstanding change documents apply to 24590-PTF-M6-PVP-00017001 and have not been incorporated into this modification:</p> <ul style="list-style-type: none"> <li>• 24590-PTF-M6LN-PVP-00003</li> <li>• 24590-PTF-M6N-PVP-00061</li> <li>• 24590-PTF-M6N-PVP-00062</li> </ul>																							
<p>The following outstanding change documents apply to 24590-PTF-M6-PVP-00017003 and have not been incorporated into this modification:</p> <ul style="list-style-type: none"> <li>• 24590-PTF-M6LN-PVP-00002</li> <li>• 24590-PTF-M6LN-PVP-00005</li> <li>• 24590-PTF-M6N-PVP-00061</li> </ul>																							

Quarter Ending June 30, 2010

24590-PTF-PCN-ENV-08-028

The following outstanding change documents apply to 24590-PTF-M6-CNP-00008 and have not been incorporated into this modification:

- 24590-PTF-M6LN-CNP-00002
- 24590-PTF-M6LN-CNP-00003
- 24590-PTF-M6LN-CNP-00013
- 24590-PTF-M6N-CNP-00082
- 24590-PTF-M6N-CNP-00084
- 24590-PTF-M6N-CNP-00095
- 24590-PTF-M6N-CNP-00097
- 24590-PTF-M6N-M80T-00080
- 24590-PTF-MPPN-CNP-00001

WAC 173-303-830 Modification Class:	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please mark the Modification Class:		X		

Enter relevant WAC 173-303-830, Appendix I Modification citation number:

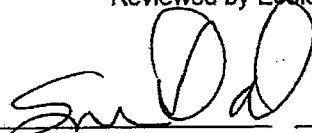
Enter wording of WAC 173-303-830, Appendix I Modification citation:

In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class <sup>1</sup>1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

Modification  
Approved/Concur: ☒ Yes ☐ Denied (state reason below)

Reason for denial:

Reviewed by Ecology:

  
Kelly Elsethagen

7/7/10

Date

# 10-ESQ-124

## Drawings:

24590-PTF-M6-PVP-00017001 Rev 0

24590-PTF-M6-PVP-00017002 Rev 0

24590-PTF-M6-PVP-00017003 Rev 0

24590-PTF-M6-CNP-00008 Rev 2

Quarter Ending 09/30/10

24590-PTF-PCN-ENV-10-026

**Hanford Facility RCRA Permit Modification Notification Form****Part III, Operating Unit 10****Waste Treatment and Immobilization Plant****Index**

Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant  
Update Piping and Instrumentation Diagram (P&ID) for Treated LAW Evaporation Utility Rack, PSA-RK-00002

Submitted by Co-Operator:

  
D. M. Busche7/29/10  
Date

Reviewed by ORP Program Office:

  
D. Knutson8/20/10  
Date

Quarter Ending 09/30/10

24590-PTF-PCN-ENV-10-026

## Hanford Facility RCRA Permit Modification Notification Form

Unit:

Permit Part:

Waste Treatment and Immobilization Plant

Part III, Operating Unit 10

Description of Modification:

The purpose of this Class 1 modification is to update the P&ID for the Treated LAW Evaporation Utility Rack, PSA-RK-00002 in Appendix 8.2 of the Dangerous Waste Permit (DWP). The permit P&ID incorporated into the DWP is being replaced with the current revision as indicated in the Table below:

## Appendix 8.2

Replace:	24590-PTF-M6-TLP-P0006, Rev 0	With:	24590-PTF-M6-TLP-00006, Rev 2
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This modification requests Ecology approval and incorporation into the permit, the changes provided in applicable document change forms (e.g., DCNs) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permitted drawing. Revisions are the result of ongoing design changes.

The following identifies the significant changes to the drawing:

- Incorporated 24590-PTF-M6N-M80T-00005, -00015, and -00037
- Incorporated 24590-PTF-M6N-M80T-00008, -00012, and -00036
- Incorporated 24590-PTF-M6N-TLP-00038
- Added quick connect and check valve
- Revised quality / seismic classification
- Deleted demineralized water isolation valves
- Revised Y-strainer downstream of fluidics controller to conical pilgrim hat strainer
- Revised, deleted, and added notes, holds, and references

The following outstanding change documents apply to 24590-PTF-M6-TLP-00006 and have not been incorporated into this modification:

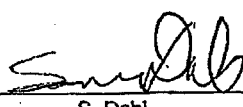
- 24590-PTF-M6LN-M80T-00033
- 24590-PTF-M6LN-TLP-00005
- 24590-PTF-M6N-10-00004
- 24590-PTF-M6N-10-00007
- 24590-PTF-M6N-M80T-00055
- 24590-PTF-M6N-M80T-00080
- 24590-PTF-M6PR-10-00002

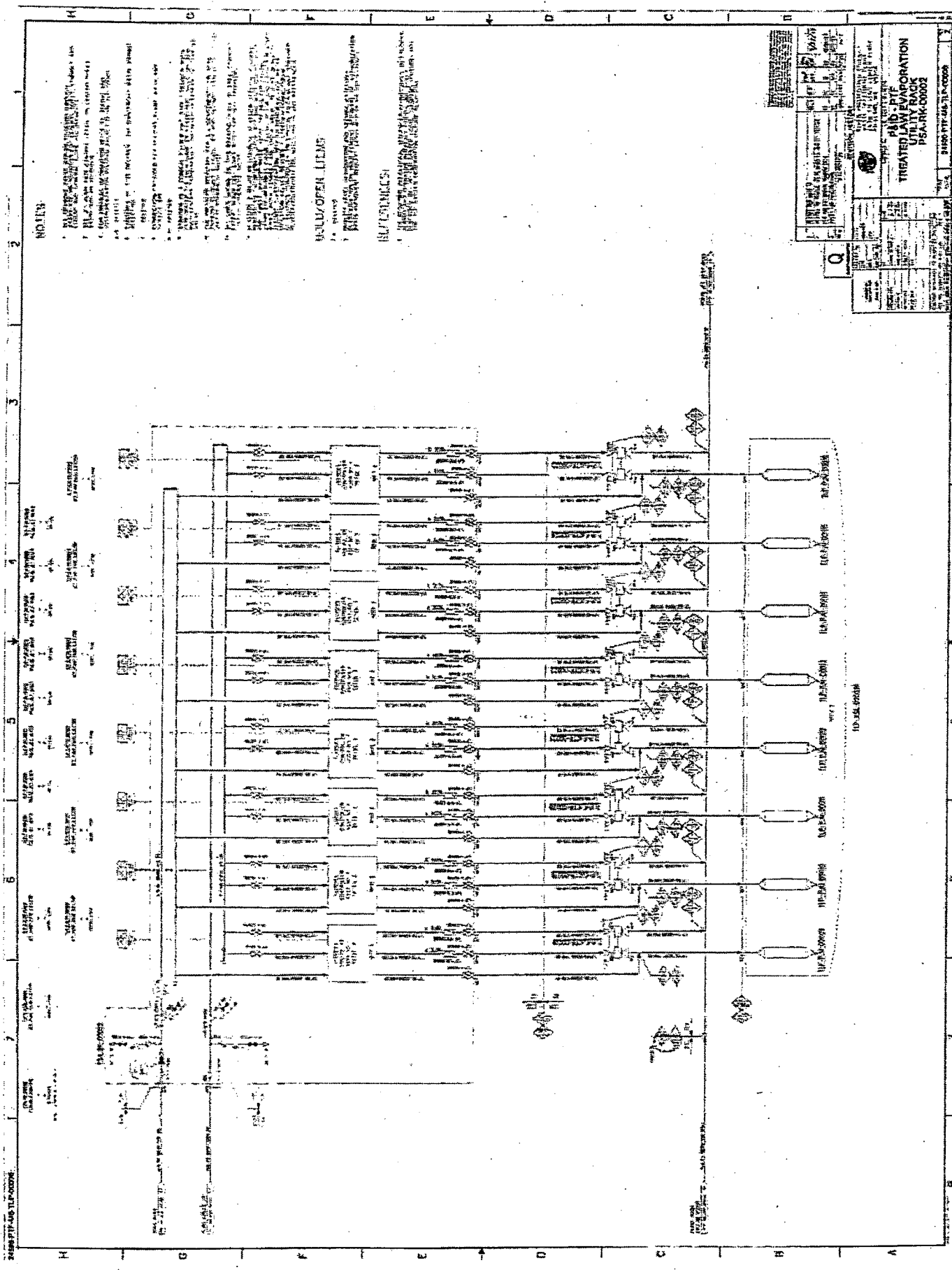
Quarter Ending 09/30/10

24590-PTF-PCN-ENV-10-026

WAC 173-303-830 Modification Class:	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please mark the Modification Class:		X		

Enter relevant WAC 173-303-830, Appendix I Modification citation number:  
Enter wording of WAC 173-303-830, Appendix I Modification citation:  
In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class <sup>1</sup>1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

Modification Approved/Concur:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)	Reviewed by Ecology:
Reason for denial:		 9/22/10
		S. Dahl Date



**NOTES:**

1. ALL EQUIPMENT IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
2. ALL PIPING IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
3. ALL ELECTRICAL WIRING IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
4. ALL INSTRUMENTATION IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
5. ALL MATERIALS ARE TO BE OF THE GRADE SPECIFIED ON THIS DRAWING.
6. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE applicable codes and standards.
7. ALL EQUIPMENT IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
8. ALL PIPING IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
9. ALL ELECTRICAL WIRING IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
10. ALL INSTRUMENTATION IS TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
11. ALL MATERIALS ARE TO BE OF THE GRADE SPECIFIED ON THIS DRAWING.
12. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE applicable codes and standards.

**HAZARDOUS LINES**

1. ALL HAZARDOUS LINES ARE TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
2. ALL HAZARDOUS LINES ARE TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.

**HAZARDOUS LINES**

1. ALL HAZARDOUS LINES ARE TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.
2. ALL HAZARDOUS LINES ARE TO BE INSTALLED IN THE MANNER SHOWN ON THIS DRAWING.

<b>PSA-RK-00002</b> <b>TREATED AIR EVAPORATION</b> <b>UTILITY RACK</b>	
PROJECT NO. 1000000000 DRAWING NO. PSA-RK-00002 DATE 10/10/00	SCALE 1/8" = 1'-0" SHEET NO. 1 OF 1
DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	



Quarter Ending June 30, 2010

24590-LAW-PCN-ENV-09-005

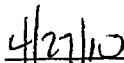
**Hanford Facility RCRA Permit Modification Notification Form****Part III, Operating Unit 10****Waste Treatment and Immobilization Plant****Index**

Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant  
Replace LAW Facility Material Selection Data Sheets With Updated Corrosion Evaluations in Appendix 9.9 of  
the Dangerous Waste Permit (DWP).

Submitted by Co-Operator:

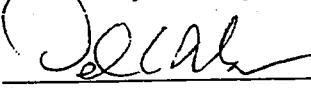


D. M. Busche

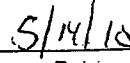


Date

Reviewed by ORP Program Office:



G. A. Girard



Date

Quarter Ending June 30, 2010

24590-LAW-PCN-ENV-09-005

**Hanford Facility RCRA Permit Modification Notification Form**

Unit:

**Waste Treatment and Immobilization Plant**

Permit Part:

**Part III, Operating Unit 10**Description of Modification:

The purpose of this Class 1 prime modification is to replace Material Selection Data Sheets with updated Corrosion Evaluations for the following LAW Facility systems in Appendix 9.9 of the DWP.

- LFP - LAW Melter Feed Process System
- LOP - LAW Primary Offgas Process System
- LVP - LAW Secondary Offgas/Vessel Vent Process System
- RLD - Radioactive Liquid Waste Disposal System

Appendix 9.9			
Replace:		With:	
	24590-LAW-N1D-LFP-P0004, Rev. 0		24590-LAW-N1D-LFP-00004, Rev. 2
	See discussion below		24590-LAW-N1D-LFP-00006, Rev. 0
	24590-LAW-N1D-LOP-P0003, Rev. 0		24590-LAW-N1D-LOP-00003, Rev. 3
	24590-LAW-N1D-LVP-P0002, Rev. 0		24590-LAW-N1D-LVP-00002, Rev. 2
	24590-LAW-N1D-RLD-P0001, Rev. 1		24590-LAW-N1D-RLD-00001, Rev. 5
	24590-LAW-N1D-RLD-P0002, Rev. 0		24590-LAW-N1D-RLD-00002, Rev. 3
	24590-LAW-N1D-RLD-P0005, Rev. 0		24590-LAW-N1D-RLD-00005, Rev. 4

This modification requests Ecology approval and incorporation into the permit the specific changes that are identified by revision bars that have been issued since the last revision of the permitted version. Revisions are the result of ongoing design review. The following identifies the changes:

24590-LAW-N1D-LFP-00004 (LFP-VSL-00001/-00003, Melter 1 & 2 Feed Preparation Vessels)

- Removed LFP-VSL-00002/-00004 from MSDS and added to Corrosion Evaluation 24590-LAW-N1D-LFP-00006, Rev.0
- Incorporated new Process Corrosion Data Sheet
- Updated Section j -- Erosion
- Added Section p -- Inadvertent Addition of Nitric Acid
- Revised agitator materials recommendation
- Updated References and Bibliography

24590-LAW-N1D-LFP-00006 (LFP-VSL-00002/-00004, Melter 1 & 2 Feed Vessels)

- A Material Selection Data Sheet was not prepared since the Melter 1 & 2 Feed Vessels LFP-VSL-00002/-00004 were previously incorporated into the DWP under 24590-LAW-N1D-LFP-P0004
- Vessels were subsequently removed from 24590-LAW-N1D-LFP-P0004 and placed under Corrosion Evaluation 24590-LAW-N1D-LFP-00006

24590-LAW-N1D-LOP-00003 (LOP-WESP-00001 & LOP-WESP-00002, Melter 1 and 2 WESP)

- Updated wear allowance based on *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*, 24590-WTP-RPT-M-04-0008
- Updated References and Bibliography

Quarter Ending June 30, 2010

24590-LAW-PCN-ENV-09-005

24590-LAW-N1D-LVP-00002 (LVP-TK-00001, Caustic Collection Tank)

- Updated wear allowance based on *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*, 24590-WTP-RPT-M-04-0008
- Updated Section g – Microbiologically Induced Corrosion (MIC)
- Updated References and Bibliography

24590-LAW-N1D-RLD-00001 (RLD-VSL-00004, C3/C5 Drains/Sump Collection Vessel)

- Updated wear allowance based on *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*, 24590-WTP-RPT-M-04-0008
- Incorporated new Process Corrosion Data Sheet (PCDS)
- PCDS includes data for "Leach" and "No Leach." "Leach" refers to the process of adding caustic to HLW feed to dissolve aluminum
- Added Section p -- Inadvertent Addition of Nitric Acid
- Updated References and Bibliography

24590-LAW-N1D-RLD-00002 (RLD-VSL-00005, SBS Condensate Collection Vessel)

- Updated wear allowance based on *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*, 24590-WTP-RPT-M-04-0008
- Incorporated new Process Corrosion Data Sheet
- PCDS includes data for "Leach" and "No Leach." "Leach" refers to the process of adding caustic to HLW feed to dissolve aluminum
- Added Section p -- Inadvertent Addition of Nitric Acid
- Updated References and Bibliography

24590-LAW-N1D-RLD-00005 (RLD-VSL-00003, Plant Wash Vessel)

- Modified Operating Description
- Updated wear allowance based on *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*, 24590-WTP-RPT-M-04-0008
- Incorporated new Process Corrosion Data Sheet
- PCDS includes data for "Leach" and "No Leach." "Leach" refers to the process of adding caustic to HLW feed to dissolve aluminum
- Added Section p -- Inadvertent Addition of Nitric Acid
- Updated References and Bibliography

There are no outstanding change documents associated with this modification.

WAC 173-303-830 Modification Class:	Class 1	Class 1 <sup>1</sup>	Class 2	Class 3
Please mark the Modification Class:		X		


Enter relevant WAC 173-303-830, Appendix I Modification citation number:

Enter wording of WAC 173-303-830, Appendix I Modification citation:

In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class 1<sup>1</sup> modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

Modification Approved/Concur: ☒ Yes ☐ Denied (state reason below)  
Reason for denial:

Reviewed by Ecology:

  
Kelly Elsethagen

7-30-10  
Date

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Quarter Ending June 30, 2010

24590-LAW-PCN-ENV-06-017

**Hanford Facility RCRA Permit Modification Notification Form**  
**Part III, Operating Unit 10**  
**Waste Treatment and Immobilization Plant**

**Index**

Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant  
Update the integrity assessments in Appendix 9.11 of the Dangerous Waste Permit for the LAW Facility's Secondary Containment Cells/Rooms located at floor elevation (-)21'-0" (Cell L-B001B); elevation 3'-0" (@ elevation 2'-0" Cells L-0123, L-0124, and L-0126); elevation 28'-0" (Room L-0218); and elevation 48'-0" (Room L-0304F) within the building.

Submitted by Co-Operator:

Donna M Busche

D. M. Busche

3/23/10

Date

Reviewed by ORP Program Office:

G. A. Girard

G. A. Girard

4/2/10

Date

Quarter Ending June 30, 2010

24590-LAW-PCN-ENV-06-017

**Hanford Facility RCRA Permit Modification Notification Form**

Unit:

**Waste Treatment and Immobilization Plant**

Permit Part:

**Part III, Operating Unit 10**Description of Modification:

The purpose of this modification is to update the Integrity Assessment of the Low Activity Waste (LAW) secondary containment cells and rooms located at elevations (-)21'-0", 3'-0", 28'-0", and 48'-0" currently located in Appendix 9.11 of the Dangerous Waste Permit (DWP).

Appendix 9.11

Replace:	24590-CM HC4-HXYG-00138-01-06A	With:	CCN 169564, Areva Federal Services Number: IA-3002605-000
	24590-CM HC4-HXYG-00138-01-10, Rev. 00B		
	24590-CM HC4-HXYG-00138-02- 00018, Rev. 00A		

This modification requests Ecology approval and incorporation into the permit the above mentioned integrity assessment report. The report has been updated by the Independent Qualified Registered Professional Engineer (IQRPE). The report reflects the IQRPE's review of drawings, specifications and data sheets produced in accordance with references including the following:

- 24590-WTP-DB-ENG-01-001, Rev. 10, Basis of Design;
- 24590-WTP-DC-ST-01-001, Rev. 12, Structural Design Criteria;
- WTSC99-1036-42-17, RPP-WTP Final Report Geotechnical Investigation, Shannon & Wilson Inc. (H-1616-51), May 2000;
- ACI 318-99, Building Code Requirements for Structural Concrete and Commentary, American Concrete Institute;
- ACI 349-01, Code Requirements for Nuclear Safety-Related Concrete Structures and Commentary, American Concrete Institute;
- ASCE 7-98, Minimum Design Loads for Buildings and Other Structures, American Society of Civil Engineers;
- 24590-LAW-DBC-S13T-00003, Rev. 1, Differential Settlement Effects on the Foundation (Calculations);
- UBC 1997, Uniform Building Code;
- AISC M016-89, Manual of Steel Construction - Allowable Stress Design, Ninth Edition;

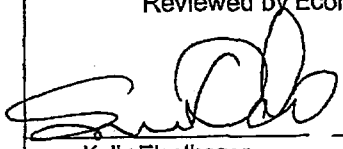
For each item of "Information Assessed" (i.e., Criteria) on the following pages, the items listed under "Source of Information" were reviewed and found to furnish adequate design requirements and controls to ensure that the design fully satisfies the requirements of Washington Administrative Code (WAC), Chapter 173-303 WAC, *Dangerous Waste Regulations*, WAC-173-303-640, *Tank Systems*.

Quarter Ending June 30, 2010

24590-LAW-PCN-ENV-06-017

WAC 173-303-830 Modification Class:	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please mark the Modification Class:		X		

Enter relevant WAC 173-303-830, Appendix I Modification citation number:  
Enter wording of WAC 173-303-830, Appendix I Modification citation:  
In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class <sup>1</sup>1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

Modification Approved/Concur: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Denied (state reason below) Reason for denial: <i>It contains new information</i>	Reviewed by Ecology:  Kelly Elsethagen	7/7/10 Date
---	--	----------------



ISSUED BY  
RPP-WTP PDC

169564

**A**  
**AREVA**

AFS-10-0049

February 24, 2010

Ms. Jennifer Broadbent  
Subcontract Administrator  
Bechtel National, Inc.  
2435 Stevens Center Place  
Richland, Washington 99354

RPP-WTP  
RECEIVED  
FEB 25 2010  
**BY PDC**

Dear Ms. Broadbent:

**BECHTEL NATIONAL, INC. CONTRACT NO. 24590-CM-HC4-HXYG-00211**  
**IQRPE STRUCTURAL INTEGRITY ASSESSMENT REPORT FOR LAW**  
**SECONDARY CONTAINMENT (IA-3002605-000)**

The structural integrity assessment of the subject secondary containment has been completed per the contract requirements and is enclosed for your use. The assessment found that the design is sufficient to ensure that the secondary containment is adequately designed and has sufficient structural strength, compatibility with the waste(s) to be processed/stored/treated, and corrosion protection to ensure that it will not collapse, rupture, or fail.

If you have any questions, please contact Tarlok Hundal at (509) 371-1975, or via email at [tarlok.hundal@areva.com](mailto:tarlok.hundal@areva.com).

Sincerely,

Fred R. Renz  
Contract Management  
AREVA Federal Services LLC  
Richland Office

llm

Enclosure (1)

cc: D. C. Pfluger, MS 5-L w/enclosure (2)

**AREVA Federal Services LLC**

2101 Horn Rapids Road, RC-19, Richland, WA 99354, P. O. Box 840, Richland, WA 99352  
Tel.: 509 375 8095 - Fax: 509 375 8495 - [www.areva.com](http://www.areva.com)



Quarter Ending June 30, 2010

24590-HLW-PCN-ENV-06-007

**Hanford Facility RCRA Permit Modification Notification Form****Part III, Operating Unit 10****Waste Treatment and Immobilization Plant**

## Index

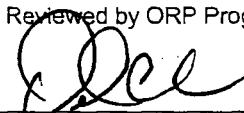
Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant  
Update Equipment Assembly Canister Decon Vessel 1, HDH-VSL-00002, and Equipment Assembly Canister  
Decon Vessel 2, HDH-VSL-00004, in Appendix 10.6 of the Dangerous Waste Permit.

Submitted by Co-Operator:

Reviewed by ORP Program Office:



D. M. Busche

  
5/27/10

Date



D. Knutson

6/17/10

Date

Quarter Ending June 30, 2010

24590-HLW-PCN-ENV-06-007

**Hanford Facility RCRA Permit Modification Notification Form**

Unit:	Permit Part:
<b>Waste Treatment and Immobilization Plant</b>	<b>Part III, Operating Unit 10</b>

**Description of Modification:**

The purpose of this Class 1 modification is to update Mechanical Drawings for the Equipment Assembly Canister Decon Vessel 1, HDH-VSL-00002, and Equipment Assembly Canister Decon Vessel 2, HDH-VSL-00004, in Appendix 10.6 of the Dangerous Waste Permit. The following Mechanical Drawings are submitted to replace the permitted drawings currently in Appendix 10.6.

Appendix 10.6			
Replace:	24590-HLW-MV-HDH-P0004, Rev. 0	With:	24590-HLW-MV-HDH-00010001, Rev. 1 24590-HLW-MV-HDH-00010002, Rev. 1 24590-HLW-MV-HDH-00010003, Rev. 1
	24590-HLW-MV-HDH-P0005, Rev. 1		24590-HLW-MV-HDH-00010001, Rev. 1 24590-HLW-MV-HDH-00010002, Rev. 1 24590-HLW-MV-HDH-00010003, Rev. 1
	24590-HLW-MV-HDH-P0006, Rev. 0		24590-HLW-MV-HDH-00011001, Rev. 1 24590-HLW-MV-HDH-00011002, Rev. 1 24590-HLW-MV-HDH-00011003, Rev. 1
	24590-HLW-MV-HDH-P0007, Rev. 1		24590-HLW-MV-HDH-00011001, Rev. 1 24590-HLW-MV-HDH-00011002, Rev. 1 24590-HLW-MV-HDH-00011003, Rev. 1

The referenced mechanical drawings (24590-HLW-MV-HDH-P0004, 24590-HLW-MV-HDH-P0005, 24590-HLW-MV-HDH-P0006 and 24590-HLW-MV-HDH-P0007) have been superseded. The superseding drawings incorporate changes provided in applicable document change forms (e.g., DCN, SCN, SDDR, FCN, FCR, etc.) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permitted drawing. This modification requests Ecology approval and incorporation into the permit the drawings listed above (24590-HLW-MV-HDH-00010001 through -00010003, and 24590-HLW-MV-HDH-00011001 through -00011003). The new drawings are the result of ongoing design changes. The following identifies the significant types of changes to 24590-HLW-MV-HDH-P0004, 24590-HLW-MV-HDH-P0005, 24590-HLW-MV-HDH-P0006 and 24590-HLW-MV-HDH-P0007 that are documented on the new drawings:

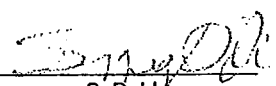
- Revised notes
- Incorporate changes from DCNs identified in notes
- Added drawings index
- Removed holds
- Provided additional detail views
- Incorporated vendor related changes
- Added nozzle identifiers and nozzle schedule (24590-HLW-MV-HDH-00010001 and 24590-HLW-MV-HDH-00011001)

The following is a list of outstanding change documents that have not been incorporated into this modification:

- None

Quarter Ending June 30, 2010

24590-HLW-PCN-ENV-06-007

WAC 173-303-830 Modification Class:	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: Enter wording of WAC 173-303-830, Appendix I Modification citation: In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class <sup>1</sup> 1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."				
Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial:		Reviewed by Ecology:  S. Dahl		
		Date: 7/14/10		

24590-HLW-PCN-ENV-06-007 Drawings:

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24590-HLW-MV-HDH-OOOI0001 Rev 1

24590-HLW-MV-HDH-OOOI0002 Rev 1

24590-HLW-MV-HDH-OOOI0003 Rev 1

24590-HLW-MV-HDH-OOOI0001 Rev 1

24590-HLW-MV-HDH-OOOI0002 Rev 1

24590-HLW-MV-HDH-OOOI0003 Rev 1

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**Hanford Facility RCRA Permit Modification Notification Forms**

**Part III, Operating Unit 2  
PUREX Storage Tunnels**

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Page 2 of 8: Hanford Facility RCRA Permit III.2  
Page 3 of 8: Addendum E, Addendum F, and Addendum I  
Page 4 of 8: Addendum G  
Page 5 of 8: Addendum J, §J.1.4  
Page 6 of 8: Addendum J, §J.3  
Page 7 of 8: Addendum J, §J.3.2  
Page 8 of 8: Addendum J, §J.4

Submitted by Co-Operator:

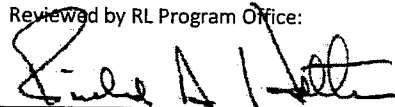


Kurtis L. Kehler

9/10/10

Date

Reviewed by RL Program Office:






Richard A. Holten

9/2/10

Date

Hanford Facility RCRA Permit Modification Notification Form				
Unit: <b>PUREX STORAGE TUNNELS</b>		Permit Part <b>PART III, OPERATING UNIT 2</b>		
<u>Description of Modification:</u> Remove Chapter 8.0, dated October 2006, and replace with Addendum G, dated September 30, 2010:				
WAC 173-303-830 Modification Class		Class 1	Class 1	Class 2
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1.				
Enter wording of WAC 173-303-830, Appendix I Modification citation:				
A.1. General Permit Provisions, Administrative and informational changes				
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial)		Reviewed by Ecology:		
Reason for denial:		<i>G. P. Davis</i> 7-14-10		
		G. P Davis Date		

Hanford Facility RCRA Permit Modification Notification Form				
Unit: <b>PUREX STORAGE TUNNELS</b>		Permit Part <b>PART III, OPERATING UNIT 2</b>		
<u>Description of Modification:</u> Remove Addendum J, dated September 30, 2008, and replace with Addendum J, dated September 30, 2010: Addendum J, §J.1.4: <b>J.1.4 Facility Manager</b> CH2MHill Plateau Remediation Company <del>Fluor Hanford</del> P.O. Box <del>16001000</del> Richland, Washington 99352- <del>16001000</del>				
WAC 173-303-830 Modification Class		Class 1	Class 1	Class 2
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan				
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial)		Reviewed by Ecology:		
Reason for denial:		<i>G. P. Davis</i> 7-14-10		
		G. P Davis Date		

<b>Hanford Facility RCRA Permit Modification Notification Form</b>														
Unit: <b>PUREX STORAGE TUNNELS</b>	Permit Part <b>PART III, OPERATING UNIT 2</b>													
<b>Description of Modification:</b> Remove Addendum J, dated September 30, 2008, and replace with Addendum J, dated September 30, 2010: Addendum J, §J.3:														
<b>J.3 IMPLEMENTATION OF THE PLAN</b> In accordance with WAC 173-303-360(2)(b), the BED ensures that trained personnel identify the character, source, amount, and areal extent of the release, fire, or explosion to the extent possible. Identification of waste can be made by activities that can include, but are not limited to, visual inspection of involved containers, sampling activities in the field, reference to inventory records, or by consulting with facility personnel. Samples of materials involved in an emergency might be taken by qualified personnel and analyzed as appropriate. These activities must be performed with a sense of immediacy and shall include available information. The BED shall use the following guidelines to determine if an event has met the requirements of WAC 173-303-360(2)(d): <ol style="list-style-type: none"> <li>1. The event involved an unplanned spill, release, fire, or explosion,  <div style="text-align: center;">AND</div> </li> <li>2.a The unplanned spill or release involved a dangerous waste, or the material involved became a dangerous waste as a result of the event (e.g., product that is not recoverable.), or</li> <li>2.b The unplanned fire or explosion occurred at the PUREX Storage Tunnels or transportation activity subject to RCRA contingency planning requirements,  <div style="text-align: center;">AND</div> </li> <li>3. Time-urgent response from an emergency services organization was required to mitigate the event, or a threat to human health or the environment exists.</li> </ol> As soon as possible, after stabilizing event conditions, the BED shall determine, in consultation with the Site contractor environmental single-point-of-contact, if notification to the Washington State Department of Ecology is needed to meet WAC-173-303-360(2)(d) reporting requirements. If all of the conditions under 1, 2, and 3 are met, notifications are to be made to Ecology. Additional information is found in Attachment 4, <i>Hanford Emergency Management Plan</i> (DOE/RL-94-02), Section 4.2. If review of all available information does not yield a definitive assessment of the danger posed by the incident, a worst case condition will be presumed and appropriate protective actions and notifications will be initiated. The BED is responsible for initiating any protective actions based on their best judgment of the incident. The BED must assess each incident to determine the response necessary to protect the personnel, facility, and the environment. If assistance from HP, HFD, or ambulance units is required, the Hanford Emergency Response Number (911 or 373-0911 if using a cellular phone) must be used to contact the POC and request the desired assistance. To request other resources or assistance from outside the Central Plateau Surveillance and Maintenance facilities, the POC business number is used (373-3800).														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">WAC 173-303-830 Modification Class</th> <th style="width: 12.5%;">Class 1</th> <th style="width: 12.5%;">Class 1</th> <th style="width: 12.5%;">Class 2</th> <th style="width: 12.5%;">Class 3</th> </tr> <tr> <td>Please mark the Modification Class:</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> </table>					WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3	Please mark the Modification Class:	X			
WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3										
Please mark the Modification Class:	X													
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; vertical-align: top; padding: 5px;">           Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial)  <u>Reason for denial:</u>  <div style="height: 40px; border: 1px solid black; margin-top: 5px;"></div> </td> <td style="width: 40%; vertical-align: top; padding: 5px;">           Reviewed by Ecology:  <div style="text-align: center; font-size: 1.2em; margin-top: 10px;">  </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>G. P Davis</span> <span>7-14-10</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span></span> <span>Date</span> </div> </td> </tr> </table>					Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u> <div style="height: 40px; border: 1px solid black; margin-top: 5px;"></div>	Reviewed by Ecology: <div style="text-align: center; font-size: 1.2em; margin-top: 10px;">  </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>G. P Davis</span> <span>7-14-10</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span></span> <span>Date</span> </div>								
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u> <div style="height: 40px; border: 1px solid black; margin-top: 5px;"></div>	Reviewed by Ecology: <div style="text-align: center; font-size: 1.2em; margin-top: 10px;">  </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>G. P Davis</span> <span>7-14-10</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span></span> <span>Date</span> </div>													



<b>Hanford Facility RCRA Permit Modification Notification Form</b>				
Unit: <b>PUREX STORAGE TUNNELS</b>	Permit Part <b>PART III, OPERATING UNIT 2</b>			
<b>Description of Modification:</b> Remove Addendum J, dated September 30, 2008, and replace with Addendum J, dated September 30, 2010: Addendum J, §J.3.2:				
<b>J.3.2 Fire or Explosion</b> <p>The fire or explosion hazard associated with the PUREX Storage Tunnels is considered to be very low because of the minimal amount of combustibles stored within the tunnels and the lack of an ignition source.</p> <ul style="list-style-type: none"> <li>• Because of the potential for mixed waste to leach, water is not the preferred choice for fire control. Reduction of the air supply to the storage area by isolation of the tunnel exhaust system, if operating, should permit a fire to self-extinguish. Should the fire continue to spread, heavy equipment and cranes will be called to the scene to cover areas of the tunnels that might collapse. In addition, the following actions are taken in the event of a fire or explosion:</li> <li>• If present in the Tunnels, personnel leave by the nearest safe exit and proceed to the designated staging area for accounting</li> <li>• The single point-of-contact (911 or 373-0911 if using a cellular phone) is notified immediately, who in turn initiates notifications to the EC/BED (or alternate) if necessary</li> <li>• The EC/BED proceeds directly to the scene (if not already there)</li> <li>• The EC/BED obtains all necessary information pertaining to the incident</li> <li>• Depending on the severity of the event, the EC/BED or his/her designee may be required to provide notifications to the site contractor environmental single point of contact, which in turn notifies offsite agencies and/or the occurrence notification center informing them as to the extent of the emergency (including estimates of mixed waste quantities released to the environment) and any actions necessary to protect nearby buildings and/or structures.</li> <li>• Depending on the severity, the EC/BED requests activation of the affected area ICP to establish organizations to provide assistance from DOE-RL, other Hanford site contractors, and outside agencies (if 911 or 373-0911 if using a cellular phone is called, the ICP will automatically be activated).</li> <li>• The Hanford Patrol establishes roadblocks within the area to route traffic away from the emergency scene.</li> <li>• If necessary, Hanford Fire Department medical personnel remove injured personnel to a safe location, apply first aid, and prepare the injured for transport to medical aid stations or to local hospitals.</li> <li>• Depending on the magnitude of a natural phenomena event, fire, or an explosion, damage to the storage tunnels is possible. The hazards could involve personnel and environmental exposure to mixed waste. In the event of such an occurrence, a recovery plan will be developed. The recovery plan will take into consideration methods, if any, for retrieval of the waste stored within the tunnels.</li> </ul>				
WAC 173-303-830 Modification Class Please mark the Modification Class:	Class 1	Class 1	Class 2	Class 3
	X			
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan				
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>		Reviewed by Ecology: <div style="text-align: center;">               G. P. Davis           </div> <div style="text-align: right;">             7-14-10              Date           </div>		

<b>Hanford Facility RCRA Permit Modification Notification Form</b>														
Unit: <b>PUREX STORAGE TUNNELS</b>	Permit Part <b>PART III, OPERATING UNIT 2</b>													
<b>Description of Modification:</b> Remove Addendum J, dated September 30, 2008, and replace with Addendum J, dated September 30, 2010: Addendum J, §J.4:														
<b>J.4 UNIT/BUILDING EMERGENCY RESPONSE PROCEDURES</b>  The initial response to any emergency is to immediately protect the health and safety of persons in the area. Identification of released material is essential to determine appropriate protective actions. Containment, treatment, and disposal assessment are secondary responses.  <u>Emergency action levels associated with event classifications applicable to the PUREX Storage Tunnels include the following. A Site Area Emergency can be declared for a hazardous material release resulting from a fire, an explosion, operational accident involving a sufficient quantity of hazardous material, natural hazards (i.e., seismic event and/or tornado/high winds), an aircraft crash, discovery or detonation of an explosive device, a hostage situation or armed intruders, or catastrophic loss of containment/confinement. An Alert Emergency can be declared for a fire, explosion, operational accident involving a sufficient quantity of hazardous material, natural hazards (i.e., seismic event and/or tornado/high winds), and aircraft crash, or accident resulting in facility damage that threatens a confinement structure.</u> The preceding sections describe the process for implementing basic protective actions as well as descriptions of response actions for events.														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">WAC 173-303-830 Modification Class</td> <td style="width: 12.5%; padding: 2px;">Class 1</td> <td style="width: 12.5%; padding: 2px;">Class 1</td> <td style="width: 12.5%; padding: 2px;">Class 2</td> <td style="width: 12.5%; padding: 2px;">Class 3</td> </tr> <tr> <td style="padding: 2px;">Please mark the Modification Class:</td> <td style="text-align: center; padding: 2px;">X</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table>					WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3	Please mark the Modification Class:	X			
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Hanford Facility RCRA Permit Modification Notification Forms

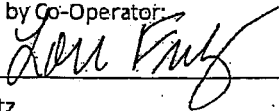
Permit Attachments

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Index

Page 2 of 5: Permit Revision 8C, List of Attachments

Submitted by Co-Operator:

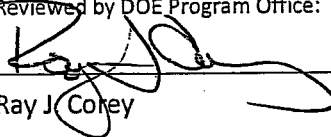


Lori L. Fritz

9.24.10

Date

Reviewed by DOE Program Office:



Ray J. Corey

10/5/10

Date

## Hanford Facility RCRA Permit Modification Notification Form

Unit:

Permit Part

Permit Revision 8C

List of Attachments

## Description of Modification:

Permit Revision 8C, List of Attachments:

## List of Attachments

The following listed documents are attached in their entirety. However, only those portions of the attachments specified in Parts I through VI are enforceable conditions of this Permit and subject to the permit modification requirements of Permit Condition I.C.3. Changes to portions of the attachments, which are not subject to the permit modification process, will be addressed in accordance with Permit Conditions I.E.8, I.E.11, I.E.13, I.E.15, through I.E.20, and I.E.22. Ecology has, as deemed necessary, modified specific language in these attachments. These modifications are described in the conditions (Parts I through VI), and thereby supersede the language of the attachment.

Attachment 1 Hanford Federal Facility Agreement and Consent Order, (as amended)  
<http://www.hanford.gov/tpa/coverpg.htm>

Attachment 2 Hanford Facility Legal Description, from Class <sup>1</sup>1 modification, dated January 7, 1999

Attachment 3 ~~Permit Applicability Matrix, dated March 2006~~ Security, dated September 30, 2010

Attachment 4 Hanford Emergency Management Plan, DOE/RL-94-02 Revision 2, as amended and approved modifications

Attachment 5 ~~Purgewater Management Plan, July 1990~~ Hanford Facility Personnel Training Program, dated September 30, 2010

Attachment 6 Reports and Records, dated September 30, 2010 ~~Hanford Well Maintenance and Inspection Plan, BHI-01265, Revision 0, May 1999~~

Attachment 7 Policy on Remediation of Existing Wells and Acceptance Criteria for RCRA and CERCLA, June 1990

Attachment 8 Hanford Well Maintenance and Inspection Plan, BHI-01265, Revision 0, May 1999

Attachment 9 Permit Applicability Matrix, dated September 30, 2010

Attachment 10 Purgewater Management Plan, July 1990

~~Attachment 33 Hanford Facility Dangerous Waste Permit Application General Information Portion, DOE/RL 91-28, Revision 7, and approved modifications~~

WAC 173-303-830 Modification Class

Please mark the Modification Class:

Class 1

Class <sup>1</sup>1

Class 2

Class 3

X

Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.8

Enter wording of WAC 173-303-830, Appendix I Modification citation: Changes to remove permit conditions that are no longer applicable

Modification Approved/Concur



Yes



Denied (state reason below)

Reason for denial:

Reviewed by Ecology:

G. P. Davis

9-28-10

G. P. Davis

Date

---

**Hanford Facility RCRA Permit Modification**

**Permit Attachments**

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**Remove and replace the following:**

- Remove Permit Revision 8C, dated September 30, 2009, with Permit Revision 8C, dated September 30, 2010
- Remove Permit Attachment 3, dated March 2006 and replace with Permit Attachment 3, Security, dated September 30, 2010.
- Remove Permit Attachment 5, dated July 1990 and replace with Permit Attachment 5 dated September 30, 2010
- Removed Permit Attachment 6, dated May 1999 and replace with Permit Attachment 6, Reports and Records, dated September 30, 2010
- Insert Attachment 8, Hanford Well Maintenance and Inspection Plan, BHI-01265, Revision 0, May 1999
- Insert Attachment 9, Permit Applicability Matrix, dated September 30, 2010
- Insert Attachment 10, Purgewater Management Plan, July 1990

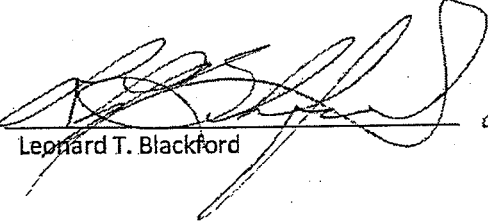
**Hanford Facility RCRA Permit Modification Notification Forms**  
**Part III, Operating Unit 3**  
**Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility**

Index

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Page 4 of 12:	Addendum J, §J.3
Page 5 of 12:	Addendum J, §J.3.1.1
Page 6 of 12:	Addendum J, §J.3.1.2
Page 7 of 12:	Addendum J, §J.3.2.4
Page 8 of 12:	Addendum J, §J.3.2.5
Page 9 of 12:	Addendum J, J.4
Page 10 of 12:	Addendum J, §J.4.1
Page 11 of 12:	Addendum J, §J.4.5
Page 12 of 12:	Addendum J, Figure J.2

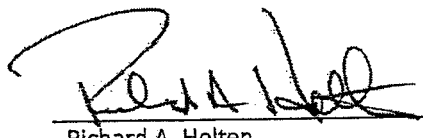
Submitted by Co-Operator:

Reviewed by DOE Program Office:

  
Leonard T. Blackford

  
Date

8/30/10

  
Richard A. Holten

  
Date

9/2/10

Hanford Facility RCRA Permit Modification Notification Form														
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>													
Description of Modification: Part III, OU-3, Permit Conditions:														
<b>OPERATING UNIT GROUP 3 PERMIT CONDITIONS</b> <b>Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility</b>														
<b>UNIT DESCRIPTION:</b> <p>The Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility (LERF and 200 Area ETF) consists of an aqueous waste treatment system that provides storage and treatment for a variety of aqueous mixed waste located in the 200 East Area.</p> <p>This document sets forth the operating conditions for the LERF and 200 Area ETF.</p> <p><b>Operating Unit Group 3:</b></p> <p>Chapter 1.0     Part A Form, dated October 1, 2008</p> <p>Chapter 3.0     Waste Analysis Plan, dated June 30, 2007</p> <p>Chapter 4.0     Process Information, dated December 31, 2007</p> <p>Chapter 5.0     Groundwater Monitoring (PNNL-11620 &amp; WHC-SD-EN-AP-024), dated June 30, 2008</p> <p>Chapter 6.0     Procedures to Prevent Hazards, dated June 30, 2007 (also refer to Permit Attachment 33, §6.1)</p> <p><del>Chapter 7.0 Contingency Plan, dated June 30, 2009</del>  <u>Addendum J Chapter 7.0 Contingency Plan, dated September 30, 2010</u></p> <p>Chapter 8.0     Personnel Training, dated June 30, 2008</p> <p>Chapter 11.0    Closure and Post Closure Requirements, dated October 2006</p> <p>Chapter 12.0    Reporting and Recordkeeping (refer to Permit Attachment 33, Table 12.1)</p>														
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WAC 173-303-830 Modification Class	Class 1	Class 1 <sup>1</sup>	Class 2	Class 3										
Please mark the Modification Class:	X													
Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1. Enter wording of WAC 173-303-830, Appendix I Modification citation: A.1.     General Permit Provisions, Administrative and informational changes														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; vertical-align: top;">           Modification Approved/Concur <input checked="" type="checkbox"/> Yes    <input type="checkbox"/> Denied (state reason below)            Reason for denial: <span style="margin-left: 100px;">KAC</span> </td> <td style="width: 40%; vertical-align: top; text-align: center;">           Reviewed by Ecology:              G. P. Davis      8-30-10            Date         </td> </tr> </table>					Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial: <span style="margin-left: 100px;">KAC</span>	Reviewed by Ecology:  G. P. Davis      8-30-10 Date								
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Hanford Facility RCRA Permit Modification Notification Form				
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>			
Description of Modification: Addendum J, Table J.1:				
<b>Table J.1. Hanford Facility Documents Containing Contingency Plan Requirements of WAC 173-303-350(3)</b>				
Requirement	Permit Attachment 4, Hanford Emergency Management Plan (DOE/RL-94-02)	Building Emergency Plan1 (HNF-IP-0263-ETF)	Part III, OU-3, LERF & 200 Area ETF, Addendum J	
-350(3)(e) - A list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems, and decontamination equipment), where this equipment is required. This list must be kept up to date. In addition, the plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities.	X <del>Hanford Fire Department:</del> Appendix C	X Section 9.0	X Section J.4	
	...	...	...	
WAC 173-303-830 Modification Class		Class 1	Class 1	Class 2
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d				
Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan				
Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial: <i>KAC</i>		Reviewed by Ecology: <i>G. P. Davis</i> <i>8-30-10</i> G. P Davis Date		



Hanford Facility RCRA Permit Modification Notification Form					
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>				
Description of Modification: Addendum J, §J.3: <b>J.3 IMPLEMENTATION OF THE PLAN</b> In accordance with <u>WAC 173-303-360(2)(b)</u> the BED ensures that trained personnel identify the character, source, amount, and areal extent of the release, fire, or explosion to the extent possible. Identification of waste can be made by activities that can include, but are not limited to, visual inspection of involved containers, sampling activities in the field, reference to inventory records, or by consulting with facility personnel. Samples of materials involved in an emergency might be taken by qualified personnel and analyzed as appropriate. These activities must be performed with a sense of immediacy and shall include available information. The BED shall use the following guidelines to determine if an event has met the requirements of <u>WAC 173-303-360(2)(d)</u> : 1. The event involved an unplanned spill, release, fire, or explosion, <div style="text-align: center;">AND</div> 2.a The unplanned spill or release involved a dangerous waste, or the material involved became a dangerous waste as a result of the event (e.g., product that is not recoverable.), or 2.b The unplanned fire or explosion occurred at the ETF/LERF or transportation activity subject to RCRA contingency planning requirements, <div style="text-align: center;">AND</div> 3. Time-urgent response from an emergency services organization was required to mitigate the event or a threat to human health or the environment exists. As soon as possible, after stabilizing event conditions, the BED shall determine, in consultation with the site contractor environmental single point-of-contact, if notification to the Washington State Department of Ecology (Ecology) is needed to meet <u>WAC 173-303-360(2)(d)</u> reporting requirements. If all of the conditions under 1, 2, and 3 are met, notifications are to be made to Ecology. Additional information is found in Permit Attachment 4, <i>Hanford Emergency Management Plan</i> , (DOE/RL-94-02), Section 4.2. If review of all available information does not yield a definitive assessment of the danger posed by the incident, a worst-case condition will be presumed and appropriate protective actions and notifications will be initiated. The BED is responsible for initiating any protective actions based on their best judgment of the incident. The BED must assess each incident to determine the response necessary to protect the personnel, facility, and the environment. If assistance from Hanford Patrol, Hanford Fire Department, or ambulance units is required, the Hanford Emergency Response Number (911 from site office phones/373-0911 from cellular phones) must be used to contact the POC and request the desired assistance. To request other resources or assistance from outside the ETF/LERF, the POC business number is 373-3800.					
WAC 173-303-830 Modification Class Please mark the Modification Class:		Class 1	Class 1 <sup>1</sup>	Class 2	Class 3
		X			
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan					
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Hanford Facility RCRA Permit Modification Notification Form														
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>													
Description of Modification: Addendum J, §J.3.1.1: <b>J.3.1.1 Evacuation</b> <p>The objective of a facility evacuation order is to limit personnel exposure to hazardous materials or dangerous/mixed waste by increasing the distance between personnel and the hazard. The scope of the evacuation includes evacuation of the facility because of an event at the facility as well as evacuation of the facility in response to a site evacuation order. Evacuation will be directed by the BED when conditions warrant and will apply to all personnel not actively involved in the event response or emergency plan related activities.</p> <p>The BED will initiate the evacuation by directing an announcement be made to evacuate along with the evacuation location over a public address system, facility radios, and, as conditions warrant, by activating the 200 Area site evacuation alarms by calling the POC using 911 <u>from site office phones/373-0911</u> <del>from or 373-3800 (if using a cellular phones)</del>. Personnel proceed to a predetermined staging area (shown in Figure J.2), or other safe upwind location, as determined by the BED. The BED will determine the operating configuration of the facility and identify any additional protective actions to limit personnel exposure to the hazard.</p> <p>Emergency organization personnel or assigned operations personnel will conduct a sweep of occupied buildings to ensure that all non-essential personnel and visitors have evacuated. For an immediate evacuation, accountability will be performed at the staging area. The BED will assign personnel as accountability aides and staging managers with the responsibility to ensure that evacuation actions are taken at all occupied buildings at the ETF/LERF. All implementing actions executed by the aides/managers are directed by the emergency response procedures. When evacuation actions are complete, the aides/managers will provide a status report to the BED. The BED will provide status to the IC.</p>														
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Hanford Facility RCRA Permit Modification Notification Form														
Unit: Liquid Effluent Retention Facility & 200 Area Effluent Treatment Facility	Permit Part Part III, Operating Unit 3													
Description of Modification: Addendum J, §J.3.1.2: <b>J.3.1.2 Take Cover</b> <p>The objective of the take cover order is to limit personnel exposure to hazardous materials, or dangerous/mixed waste when evacuation is inappropriate or not practical. Evacuation might not be practical or appropriate because of extreme weather conditions or the material release might limit the ability to evacuate safely personnel.</p> <p>The BED will initiate the take cover by directing an announcement be made over the public address system, facility radios, and, as conditions warrant, by activating the 200 Area site take cover alarms by calling the POC using 911 <u>from site office phones/373-0911 from or 373-3800 (if using a cellular phone)</u>. Actions to complete a facility take-cover will be directed by the emergency response procedure. Protective actions associated with operations include configuring, or shutting down, the ventilation systems. Determination of additional take cover response is based on plant operating configuration, weather conditions, amount and duration of release, and other conditions, as applicable to the event and associated hazard. As a minimum, personnel exposure to the hazard will be minimized. The BED will assign personnel as accountability aides with responsibility to ensure that take-cover actions are taken at all occupied buildings at the ETF complex. All implementing actions executed by the aides/managers are directed by the emergency response procedure. When take cover actions are complete, the aides/manager will provide the BED with a status report.</p>														
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Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial: <i>fac</i>	Reviewed by Ecology: <i>G. P. Davis</i> Date: <i>8-30-10</i> <div style="text-align: center; font-size: small;">G. P. Davis      Date</div>													

Hanford Facility RCRA Permit Modification Notification Form														
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>													
<b>Description of Modification:</b> Addendum J, §J.3.2.4: <b>J.3.2.4 Fire and/or Explosion</b> In the event, of a fire, the discoverer activates a fire alarm (pull box); calls 911 from site office phones/373-0911 from or 373-3800 (if using a cellular phones) or verifies that the Hanford Emergency Response Number 911 have been called. Automatic initiation of a fire alarm (through the smoke detectors, and sprinkler systems, and pull boxes) is also possible. <ul style="list-style-type: none"> <li>Unless otherwise instructed, personnel shall evacuate the area/building by the nearest safe exit and proceed to the designated staging area for accountability.</li> <li>On actuation of the fire alarm, ONLY if time permits, personnel should shut down equipment, secure waste, and lock up classified materials (or hand carry them out). The alarm automatically signals the Hanford Fire Department.</li> <li>The BED proceeds directly to the ICP, obtains all necessary information pertaining to the incident, and sends a representative to meet Hanford Fire Department.</li> <li>The BED provides a formal turnover to the IC when the IC arrives at the ICP.</li> <li>The BED informs the Hanford Site Emergency Response Organization as to the extent of the emergency (including estimates of dangerous waste and mixed waste quantities released to the environment).</li> <li>If operations are stopped in response to the fire, the BED ensures that systems are monitored for leaks, pressure buildup, gas generation, and ruptures.</li> <li>Hanford Fire Department firefighters extinguish the fire as necessary.</li> </ul> NOTE: Following a fire and/or explosion, WAC 173-303-640(7) will be addressed for the ETF regarding fitness for use.														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: left;">WAC 173-303-830 Modification Class</th> <th style="width: 12.5%;">Class 1</th> <th style="width: 12.5%;">Class 1</th> <th style="width: 12.5%;">Class 2</th> <th style="width: 12.5%;">Class 3</th> </tr> <tr> <td style="text-align: left;">Please mark the Modification Class:</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> </table>					WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3	Please mark the Modification Class:	X			
WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3										
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Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan														
Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial: <span style="font-family: cursive;">KAC</span>		Reviewed by Ecology: <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-family: cursive; font-size: 1.2em;">G. P. Davis</div> <div style="text-align: right;">8-30-10</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>G. P. Davis</div> <div>Date</div> </div>												

Hanford Facility RCRA Permit Modification Notification Form														
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>													
Description of Modification: Addendum J, §J.3.2.5: <b>J.3.2.5 Hazardous Material, Dangerous and/or Mixed Waste Spill</b> Spills can result from many sources including process leaks, container spills or leaks, damaged packages or shipments, or personnel error. Spills of mixed waste are complicated by the need to deal with the extra hazards posed by the presence of Atomic Energy Act materials. These controls include containment berms, dedicated spill control sumps, remote gauges, and level indicators as well as spray shields on chemical pipe flanges. LPCS procedures provide alarm response and maintenance actions for leak detection equipment, surveillance of possible leak locations, and response actions for detected spills.														
<ul style="list-style-type: none"> <li>• The discoverer notifies BED and initiates SWIMS response:               <ul style="list-style-type: none"> <li>Stops work</li> <li>Warns others in the vicinity</li> <li>Isolates the area</li> <li>Minimizes the spill if possible</li> <li>Requests the BED Secure ventilation</li> </ul> </li> <li>• If Operations are stopped, the BED ensures that the plant is put in a safe shutdown configuration.</li> <li>• The BED determines if emergency conditions exist requiring response from the Hanford Fire Department based on classification of the spill and injured personnel, and evaluates need to perform additional protective actions.</li> <li>• If the Hanford Fire Department resources are not needed, the spill is mitigated with resources identified in Section j.4 of this plan and proper notifications are made.</li> <li>• If the Hanford Fire Department resources are needed, the BED calls 911 <u>from site office phones/373-0911 from or 373-3800 (if using a cellular phones).</u></li> <li>• The BED sends a representative to meet the Hanford Fire Department.</li> <li>• The BED provides a formal turnover to the IC when the IC arrives at the ICP.</li> <li>• The BED informs the Hanford Site Emergency Response Organization as to the extent of the emergency (including estimates of dangerous waste and mixed waste quantities released to the environment).</li> <li>• If operations are stopped in response to the spill, the BED ensures that systems are monitored for leaks, pressure buildup, gas generation, and ruptures.</li> <li>• Hanford Fire Department stabilizes the spill.</li> </ul>														
NOTE: For response to leaks or spills and disposition of leaking or unfit-for-use tank systems, refer to <u>WAC 173-303-640(7).</u>														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">WAC 173-303-830 Modification Class</td> <td style="width: 10%;">Class 1</td> <td style="width: 10%;">Class 1<sup>1</sup></td> <td style="width: 10%;">Class 2</td> <td style="width: 10%;">Class 3</td> </tr> <tr> <td>Please mark the Modification Class:</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> </table>					WAC 173-303-830 Modification Class	Class 1	Class 1 <sup>1</sup>	Class 2	Class 3	Please mark the Modification Class:	X			
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<table style="width: 100%;"> <tr> <td style="width: 60%; vertical-align: top;">           Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)            Reason for denial: <i>AK</i> </td> <td style="width: 40%; vertical-align: top;">           Reviewed by Ecology:  <div style="text-align: center;">               G. P. Davis           </div> <div style="text-align: right;">             8-30-10              Date           </div> </td> </tr> </table>					Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial: <i>AK</i>	Reviewed by Ecology: <div style="text-align: center;">               G. P. Davis           </div> <div style="text-align: right;">             8-30-10              Date           </div>								
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Hanford Facility RCRA Permit Modification Notification Form				
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>			
<p>Description of Modification: Addendum J, §J.4:</p> <p><b>J.4 EMERGENCY EQUIPMENT</b></p> <p><del>Hanford Site emergency resources and equipment are described and listed in Permit Attachment 4, Hanford Emergency Management Plan, (DOE/RL 94-02), Appendix C. Emergency resources and equipment for the ETF/LERF are presented in this section.</del></p>				
WAC 173-303-830 Modification Class	Class 1	Class 1 <sup>1</sup>	Class 2	Class 3
Please mark the Modification Class:	X			
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d				
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Modification Approved/Concur Reason for denial:		Reviewed by Ecology:		
<div style="display: flex; align-items: center;"><div style="margin-right: 10px;"><input checked="" type="checkbox"/> Yes</div><div><input type="checkbox"/> Denied (state reason below)</div></div> <div style="margin-top: 10px;"><i>[Signature]</i></div>		<div style="display: flex; align-items: center;"><div style="margin-right: 20px;"><i>[Signature]</i></div><div>8-30-10</div></div> <div style="display: flex; justify-content: space-between;"><span>G. P Davis</span><span>Date</span></div>		

Hanford Facility RCRA Permit Modification Notification Form				
Unit: <b>Liquid Effluent Retention Facility &amp;            200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>			
Description of Modification: Addendum J, §J.4.1:				
<b>J.4.1 Fixed Emergency Equipment</b>				
<b>TYPE</b>	<b>LOCATION</b>	<b>CAPABILITY</b>		
Safety shower/ eye wash stations (ETF only)	1 - 2025E Rm 122 Decon Station 1 - 2025E South Wall of Process Area 1 - <u>2025E Rm 131</u> 1 - 2025E Rm 134 1 - Outside south 2025E near acid/ caustic tanks 1 - Outside at Load-in station 1 - 2025E Rm 112 Laboratory	Assist in flushing chemicals/ materials from the body and/ or eyes and face of personnel.		
Wet pipe sprinkler (ETF only)	Throughout the ETF except those areas protected by preactive sprinklers	Assist in the control of a fire.		
Preactive sprinkler (ETF only)	Control room, communications room, electrical equipment room	Assist in the control of a fire. Maintained dry to prevent accidental damage to equipment		
Fire alarm pull boxes (ETF only)	All high traffic areas in operations administration and support areas, truck bay, and process area	Activate the local fire alarm		
E-lights	Throughout ETF	1 hour temporary lighting		
WAC 173-303-830 Modification Class		Class 1	Class 1	Class 2
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d				
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Hanford Facility RCRA Permit Modification Notification Form				
Unit: <b>Liquid Effluent Retention Facility &amp; 200 Area Effluent Treatment Facility</b>	Permit Part <b>Part III, Operating Unit 3</b>			
Description of Modification: Addendum J, §J.4.5:				
<b>J.4.5 Spill Control and Containment Supplies</b>				
<b>SPILL KITS AND SPILL CONTROL EQUIPMENT</b>				
<b>TYPE</b>	<b>LOCATION</b>	<b>CAPABILITY</b>		
Spill bags, drums, carts, etc.	4 – 2025E in process area <u>1 – TEDF 6653 Disposal Building</u> 1 – 2025E upper level process area 1 – 2025E Rm. 125A 1 – 2025ED Load-In Station CONEX	Support containment and cleanup of hazardous material spills		
Spill response cabinet	1 – 2025E Rm 122 2 – 90-day storage CONEX East of 2025E building <u>1 – TEDF 6653 Disposal Building</u> 1 – MO-727 Change Trailer 1 – outside southeast side of 2025E	Support equipment for spill response		
WAC 173-303-830 Modification Class		Class 1	Class 1	Class 2
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d				
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## Hanford Facility RCRA Permit Modification Notification Form

Unit:

Liquid Effluent Retention Facility &  
200 Area Effluent Treatment Facility

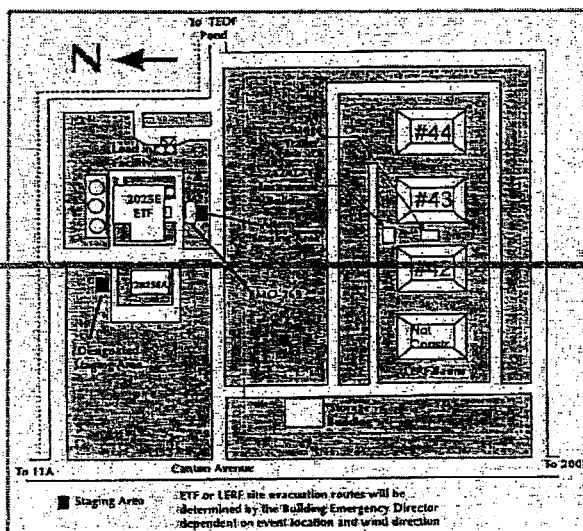
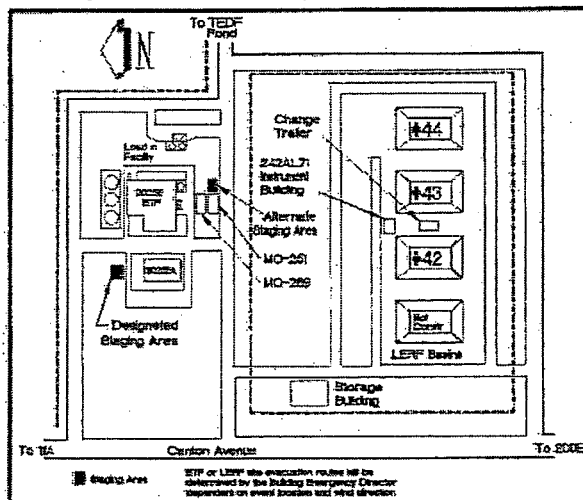
Permit Part

Part III, Operating Unit 3

Description of Modification:

Addendum J, Figure J.2:

Figure J.2. LERF and 200 Area ETF Site Plan



WAC 173-303-830 Modification Class

Please mark the Modification Class:

Class 1

Class 1

Class 2

Class 3

X

Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d

Enter wording of WAC 173-303-830, Appendix I Modification citation:

B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan

Modification Approved/Concur



Yes



Denied (state reason below)

Reason for denial:

LAC

Reviewed by Ecology:

G. P. Davis

G. P. Davis

8-3070

Date